

ABSTRACT

A cooling or heating device in an absorption heat pump of GAX type, including a generator, a GAX heat exchanger, an absorber, a condenser, an evaporator, a pump connected to the absorber and generator, and a first circuit for refrigerant solution circulating through the device and connecting together at least the generator, GAX heat exchanger, absorber, condenser, evaporator, and pump. A valve device modifies the first circuit to vary the manner in which the absorber, condenser, and evaporator are connected together. At least first and second heat exchanger units enable at least one phase of the circulating solution to be changed and to enable thermal energy to be exchanged against an external fluid, the first and second heat exchanger units each including at least two mutually separate sub-heat exchangers configured to function either as an evaporator or as an absorber and condenser, depending on an operating mode of the device.